

# COST COMPARISON: STEEL vs. CONCRETE

## Bottom Up Method

### CONSTRUCTION SCHEDULE

#### CONCRETE BASEMENT WALL, COLUMN, & FOUNDATION

Item	Description	Unit Time	Time(Hrs)
1	Temporary Sheeting	0.48/ft X 50	<b>24</b>
2	Columns – forms, rebar & concrete	0.114 X 450 20 X 1 0.8 X 9.5	<b>103</b>
3	Column Footing – forms, rebar & Concrete	0.08 X 250 13.3 X 0.55 0.6 X 34.5	<b>48</b>
4	Walls – forms, rebar & concrete	0.2 X 2400 25 X 1.85 1 X 66.5	<b>593</b>
5	Wall Footing – forms, rebar & concrete	0.08 X 50 13.3 X 0.08 0.6 X 3.5	<b>7</b>
6	Spandrel Girder – forms, rebar & concrete	0.1 X 800 13 X 1.7 0.87 X 22	<b>121</b>
	SUB TOTAL		<b>896</b>
	7 days curing		<b>56</b>
	<b>TOTAL</b>	<i>(50' wall length)</i>	<b>952</b>

#### STEEL SHEET PILE & CONCRETE PIER CAP

Item	Description	Unit Time	Time(Hrs)
1	Permanent Sheeting	0.32/ft X 30	<b>16</b>
2	Perimeter corbel – forms, rebar & concrete	0.15 X 235 17 X 0.56 1 X 2.5	<b>47</b>
3	Pile Cap – forms, rebar & concrete	0.01 X 725 13 X 1.5 0.87 X 28	<b>116</b>
4	Spandrel Girder – forms, rebar & concrete	0.1 X 550 13 X 1.12 0.87 X 18.5	<b>86</b>
	<b>TOTAL</b>	<i>(50' wall length)</i>	<b>265</b>

**Concrete = 952 hrs**

**Sheet Pile = 265 hrs**

**Savings: 72% Reduction in Schedule**

# COST COMPARISON: STEEL vs. CONCRETE

## Bottom Up Method

### CONSTRUCTION MATERIALS

#### CONCRETE BASEMENT WALL, COLUMN, & FOUNDATION

Item	Description	Unit Cost	Cost/ft wall
1	Temporary Sheeting	\$36.00	<b>\$1,440</b>
2	Columns	\$680.00	<b>\$136</b>
3	Column Footing	\$250.00	<b>\$175</b>
4	Walls	\$350.00	<b>\$466</b>
5	Wall Footing	\$200.00	<b>\$14</b>
6	Spandrel Girder	\$775.00	<b>\$332</b>
	<b>TOTAL</b>	<i>(50' wall length)</i>	<b>\$2,563</b>

#### STEEL SHEET PILE & CONCRETE PIER CAP

Item	Description	Unit Cost	Cost/ft wall
1	Permanent Sheeting	\$29.00	<b>\$1,363</b>
2	Perimeter Corbel	\$180.00	<b>\$9</b>
3	Pile Cap	\$180.00	<b>\$101</b>
4	Spandrel Girder	\$755.00	<b>\$279</b>
	<b>TOTAL</b>	<i>(50' wall length)</i>	<b>\$1,752</b>

**Concrete = \$2,563**

**Sheet Pile = \$1,752**

**Savings: 32% Material Costs**